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(71)Applicant : MATSUSHITA ELECTRIC IND CO LTD

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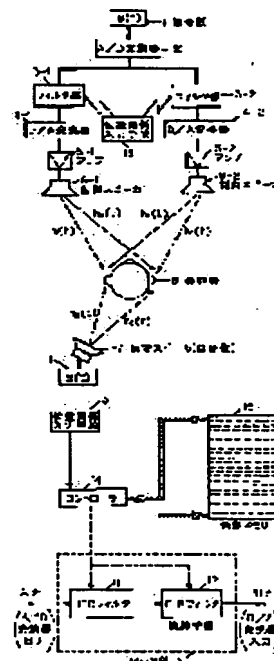
(72)Inventor : KATAYAMA TAKASHI  
TAMURA TADASHI  
KAWAMURA AKIHISA  
MATSUMOTO MASAHARU  
OGAWA MASAKO

## (54) SOUND IMAGE LOCALIZATION DEVICE AND FILTER SETTING METHOD

## (57)Abstract:

**PURPOSE:** To realize the frequency characteristic equal to that of a conventional method by combining an IIR filter means and an arithmetic means so as to adopt a hybrid structure thereby using an arithmetic means with fewer number of taps than that of the conventional method.

**CONSTITUTION:** The device is provided with a position relation entry means 13 entering a position relation between a listener 8 and an imaginary sound image 7, a filter section 3 providing an output of a control signal to localize the imaginary sound image at the position based on the position information from the position relation entry means 13 and control speakers 6-1, 6-2 emitting a control signal to a prescribed area, and the filter section is provided with an IIR filter means that receives position information of the imaginary sound image and applies filter processing with a prescribed frequency characteristic (a) and with an arithmetic means that receives a 1st processing signal, conducts convolution processing between the 1st processing signal and a transfer function having a prescribed frequency characteristic (b) and providing an output of a 2nd processing signal. The frequency characteristics a, b are decided based on the position of the imaginary sound image.



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